ESV16
Quick Installation Guide

16CH Network Video Recorder with Local Display

surveillix

Version 1.0.0

Table of Contents

Preliminary..... 3

System Overview..... 8
Front View 8
Rear View 8
LED Status 9

Installation..... 10
HDD Installation..... 10
Connecting to the NVR 13
Using NVR Device Search Utility 13
Accessing the NVR with its default IP address.....18
Password Setup 19
Camera Installation..... 20
Adding a Camera -- Automatic Search.....20
Adding a camera manually 23

Refer to the user's manual (PDF file) contained in the CD-ROM for settings, operations and other information.

The application Adobe Reader is needed to view PDF files. If you do not have this application, download it from the Adobe Systems Incorporated website.
http://www.adobe.com/

For information on our latest products and peripheral devices, refer to the following Website:
http://www.toshibasecurity.com

Preliminary

Thank you for purchasing the ESV16 Network Video Recorder (NVR). Before using the NVR, read this quick installation guide (QIG) carefully to ensure correct usage. After reading this quick installation guide (QIG), save it for future reference.

The design, specifications, software, and QIG contents are subject to change without prior notice.

FCC (USA)-INFORMATION
NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

USER-INSTALLER CAUTION: Your authority to operate this FCC verified equipment could be voided if you make changes or modifications not expressly approved by the party.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numé rique de la classe A est conforme à la norme NMB-003 du Canada

Terms and Trademarks
* The term "OS" is used in this manual to indicate operating systems compatible with this product.
-- Windows XP: Microsoft Windows XP operating system
-- Windows Vista: Microsoft Windows Vista Business operating system

-- Windows 7: Microsoft Windows 7 Professional operating system
* The formal name of Windows is Microsoft Windows Operating System.
* Microsoft, Windows and Windows Vista are trademarks or registered trademarks of Microsoft Corporation in the United States and other countries.
* Intel and Intel Core are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.
* Adobe is a registered trademark and Adobe Reader is a trademark of Adobe Systems Incorporated.
* Other product names appearing in this quick start guide may be trademarks or registered trademarks of their respective holders.

Important Safeguards

1. Read Instructions

Read all the safety and operating instructions before operating the product.

2. Retain Instructions

Retain the safety instructions and user's manual for future reference.

3. Warnings

Comply with all warnings on the product and in the user's manual.

4. Follow Instructions

Follow all operating and use instructions.

5. Cleaning

Disconnect this NVR from the power supply before cleaning.

6. Attachments

Do not use attachments not recommended by the NVR manufacturer as they may pose safety risks.

7. Water and Moisture

Do not use this NVR near water. Some examples are: near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

8. Accessories

Do not place this NVR on an unstable cart, stand, tripod, bracket or table. The NVR may fall, causing serious injury to a person, or serious damage to the product. Use only rack with bracket, or table recommended by the manufacturer, or sold with the NVR. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. Ventilation

This NVR should never be placed near or over a radiator or heat register. If this product is placed in a built-in installation, verify that there is proper ventilation so that the NVR temperature operates within the recommended temperature range.

10. Power Sources

This NVR should be operated only from the type of power source indicated on the information label. If you are not sure of the type of power supply at your location, consult your product dealer.

11. Power-Cord Protection

Power cords should be routed so that they are not likely to be walked on or

pinched by items placed upon or against them. Pay particular attention to cords at plugs, screws and the point where they exit the product.

12. Installation

Install this NVR on a secure location. If installed on an unsecured location, the NVR could fall causing injury and damage.

13. Lightning

For additional protection on this NVR during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the power supply and cable system. This will prevent damage to the NVR due to lightning and power-line surges. If lightning occurs, do not touch the unit or any connected cables in order to avoid electric shock.

14. Overloading

Do not overload the power supply or extension cords as this can result in a risk of fire or electric shock.

15. Object and Liquid Entry

Never push objects of any kind into this NVR through openings as they may touch dangerous electrical points or short-out parts that could result in a fire or electrical shock. Never intentionally spill liquid of any kind on the NVR.

16. Servicing

Do not attempt to service this NVR yourself as opening or removing covers may expose you to dangerous electrical or other hazards. Refer all servicing to qualified service personnel.

17. Damage Requiring Service

Disconnect this NVR from the power supply and refer servicing to qualified service personnel under the following conditions.

a. When the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the NVR.
c. If the NVR has been submerged in water.
d. If the NVR does not operate normally by following the operating instructions in the user's manual. Adjust only those controls that are covered by the user's manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the NVR to its normal operation.
e. If the NVR has been dropped or the cabinet has been damaged.
f. When the NVR exhibiting a distinct change in performance which indicates a need for service.
g. Other trouble.

18. Other trouble. Replacement Parts

When replacing parts, be sure the service technician uses parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

19. Safety Check

Upon completion of any service or repairs to this NVR, ask the service technician to perform safety checks to determine that the NVR is in proper operating condition.

CAUTION TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FIELD INSTALLATION MARKING:
WORDED: “THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFORM TO ALL LOCAL CODES.”

Precautions for Use
Disclaimer
We disclaim any responsibility and shall be held harmless for any damages or losses incurred by the user in any of the following cases:
1. Fire, earthquake or any other act of God; acts by third parties; misuse by the user, whether intentional or accidental; use under extreme operating conditions.
2. Malfunction or non-function resulting in indirect, additional or consequential damages, including but not limited to loss of expected income and suspension of business activities.
3. Incorrect use not in compliance with instructions in this user's manual.
4. Malfunctions resulting from misconnection to other equipment.
5. Repairs or modifications made by the user or caused to be made by the user and carried out by an unauthorized third party.

Notwithstanding the foregoing, Toshiba's liabilities shall not, in any circumstances, exceed the purchase price of the product.

Copyright and Right of Portrait
There may be a conflict with the Copyright Law and other laws when a customer uses, displays, distributes, or exhibits an image picked up by the camera without permission from the copyright holder. Please also note that transfer of an image or file covered by copyright is restricted to use within the scope permitted by the Copyright Law.

Protection of Personal Information

Images taken by the camera that reveal the likeness of an individual person may be considered personal information. To disclose, exhibit or transmit those images over the internet or otherwise, consent of the person may be required.

Usage Limitation

The product is not designed for any "critical applications." "Critical applications" means life support systems, exhaust or smoke extraction applications, medical applications, commercial aviation, mass transit applications, military applications, homeland security applications, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damage. Accordingly, Toshiba disclaims any and all liability arising out of the use of the product in any critical applications.

System Requirements

Recommended personal computer system requirements:

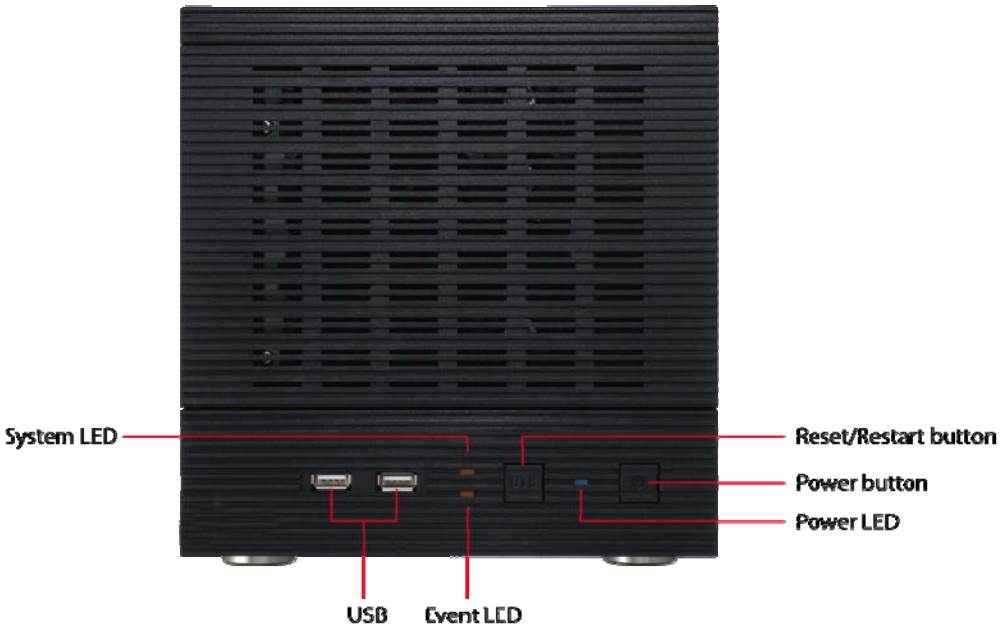
-- Windows® XP, Windows Vista® Business, or Windows® 7 professional.
-- Internet Explorer® Ver 8.0 or above
-- CPU: Intel® Core™2 Duo 2.4GHz or higher
-- Memory: 2GB RAM
-- Network: 100 Megabit Network Interface or above
-- Graphic adapter: AGP or PCI-Express, minimum 1024x768, 16 bit colors.
Make sure your display DPI setting is set to default at 96DPI

Package Contents

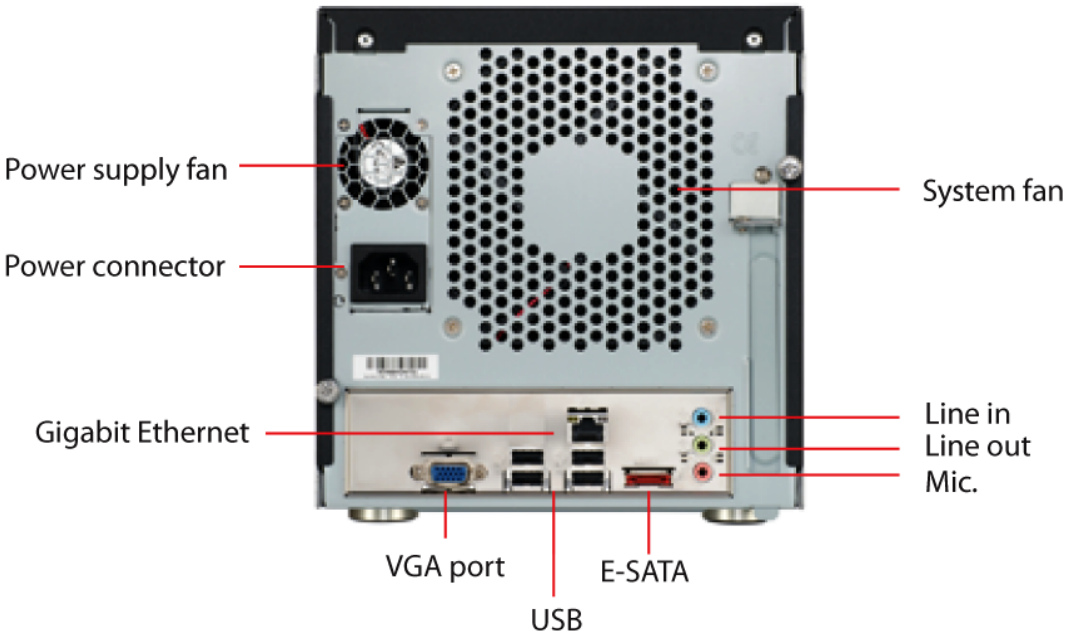
- Network Video Recorder without HDD
- Power cord
- LAN cable
- Quick Installation Guide
- Warranty Card
- CD-ROM (User's Manual, QIG, CMS Basic, NVR Device Search)
- Screws (Pan Head x8, Flat Head x12)
  Note: Pan head screws aren't used.
- Key x4 (for HDD tray)

System Overview

Front View



Rear View

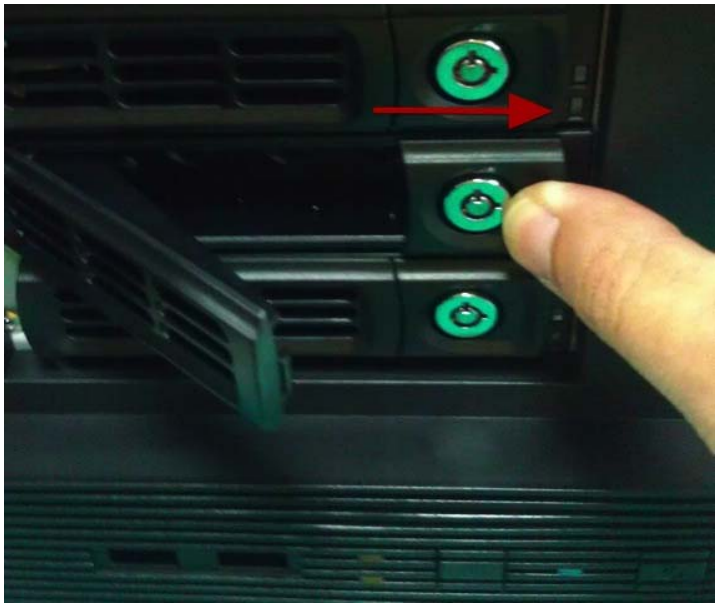


LED Status

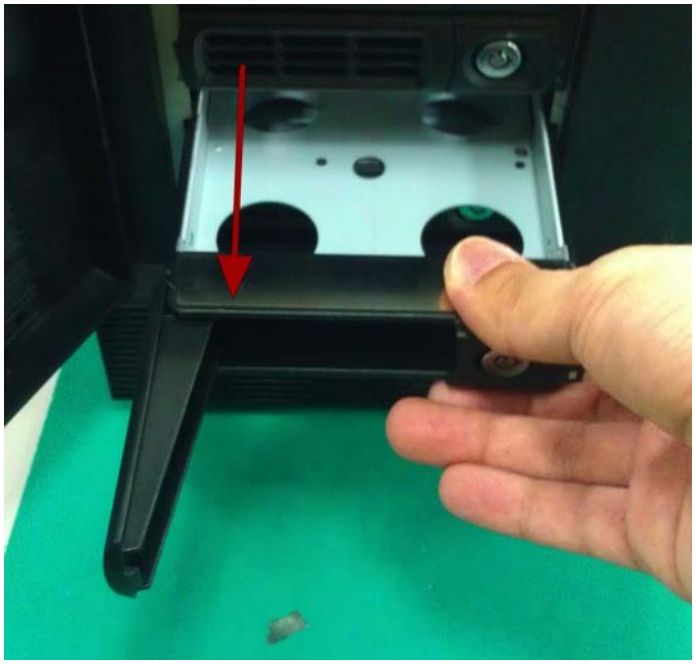
Buttons	
Power	
Reset/Restore default	• Press and release for restart • Press and hold for 3 seconds then release for restore to default, when 3 seconds is reached, System LED blinks until release of the button
LEDs	
Restore default	• System LED blinks during the process • Power LED stays solid
Restart	• Power LED stays solid • System LED off
Power	• Blue • During power on/restart/reset to default/OS fail: stays solid
System	• Amber • During firmware upgrade: blinking • System failure (AP fail): off • System Normal: Solid
Event	• Amber • During event recording: solid • No event: off

Installation

HDD Installation

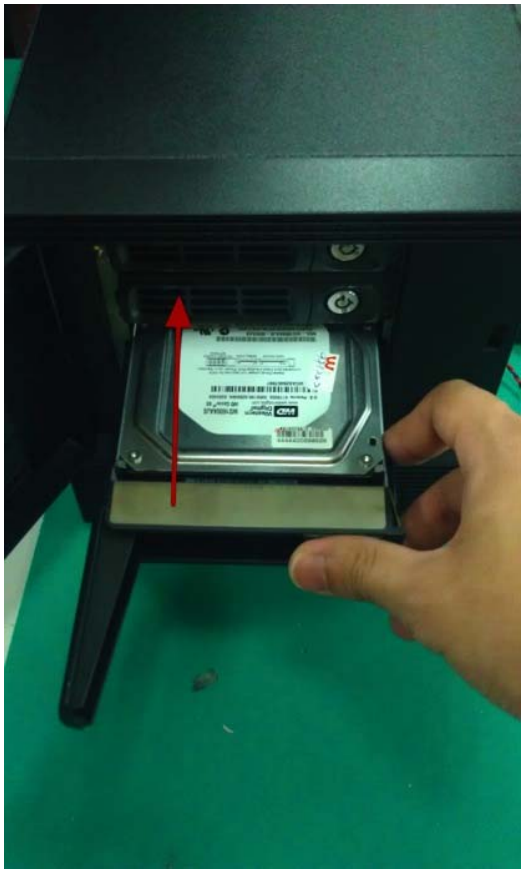


Release the HDD tray by pulling the lock to the right.



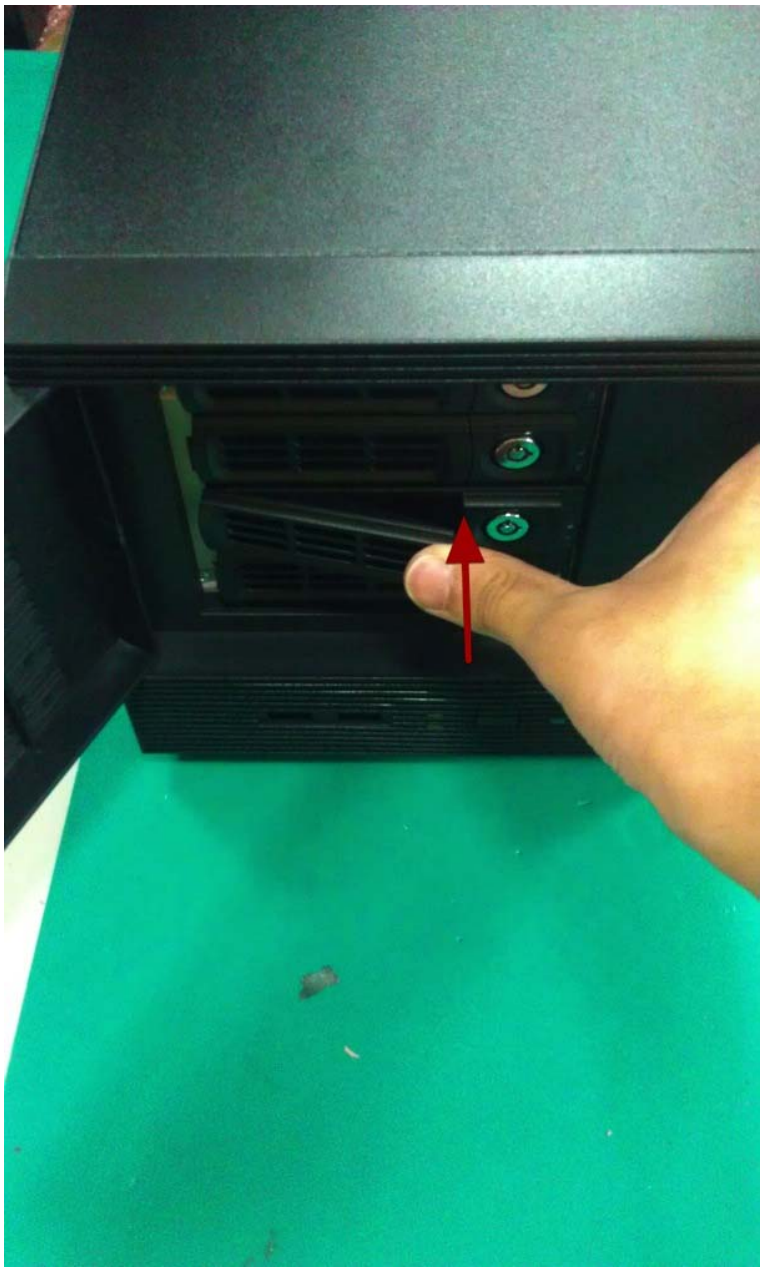
Pull the HDD tray out of the case.

Place the HDD in the tray and secure it with three flat head screws at the bottom of the tray.



Put the HDD tray back to the case

NOTE:
Maximum capacity of each hard disk drive is 3TB.
Do not use hard disk drives with power saving functions such as Intellipower.
For a list of compatible hard disk drives, visit www.toshibasecurity.com."



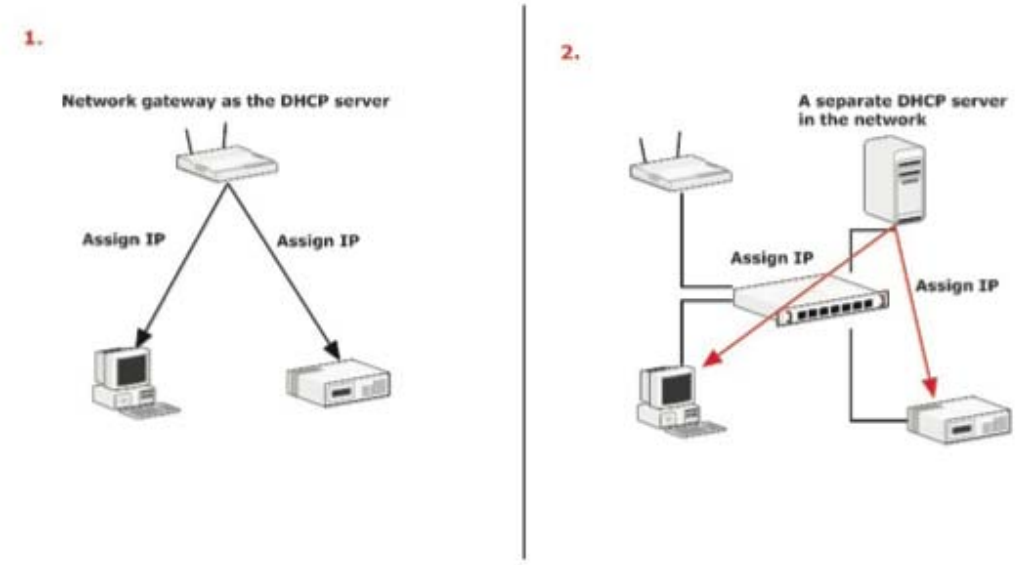
Push the tray door back to the case to secure it.

Connecting to the NVR

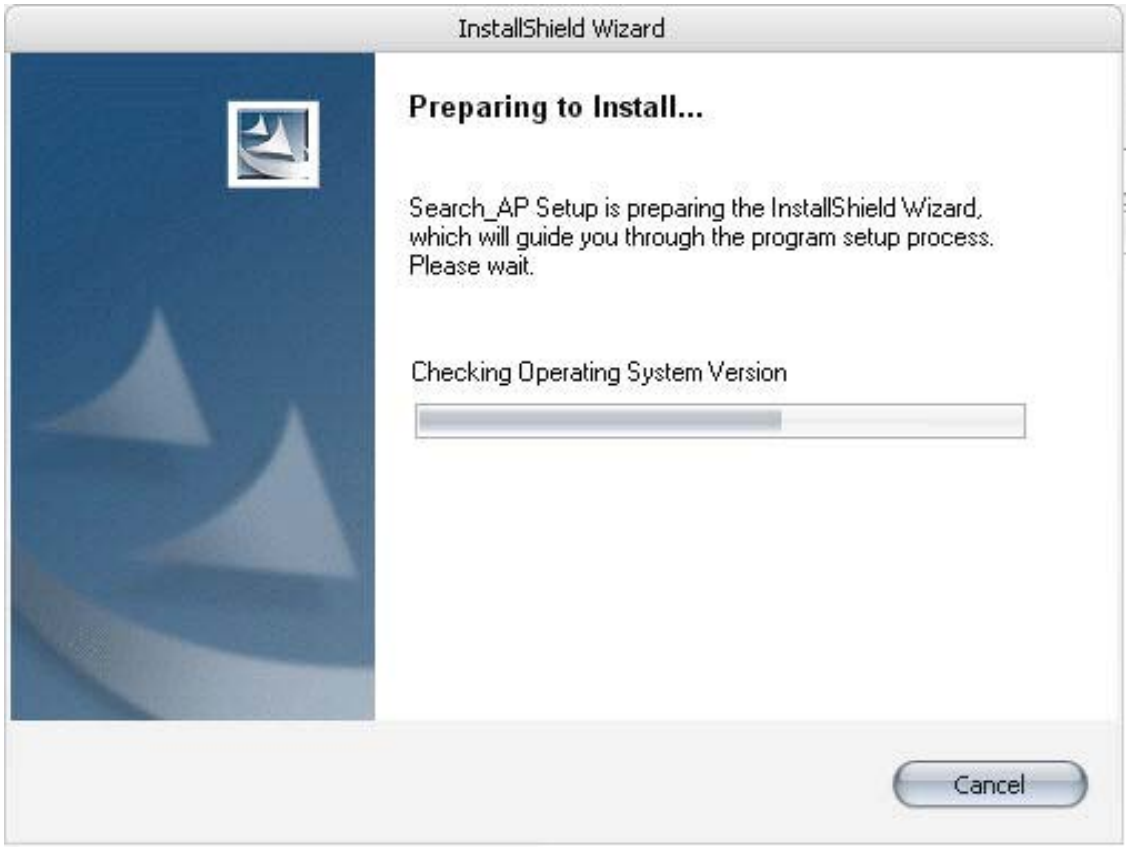
There are various ways you can connect to the NVR and below are the suggested methods for different network setup:

- The NVR is placed in a network with a DHCP server: Connect to the NVR by using **"NVR Device Search" Utility**
- The NVR is placed in a network without DHCP server (or you are connecting to it directly): **Access the NVR with its default IP**

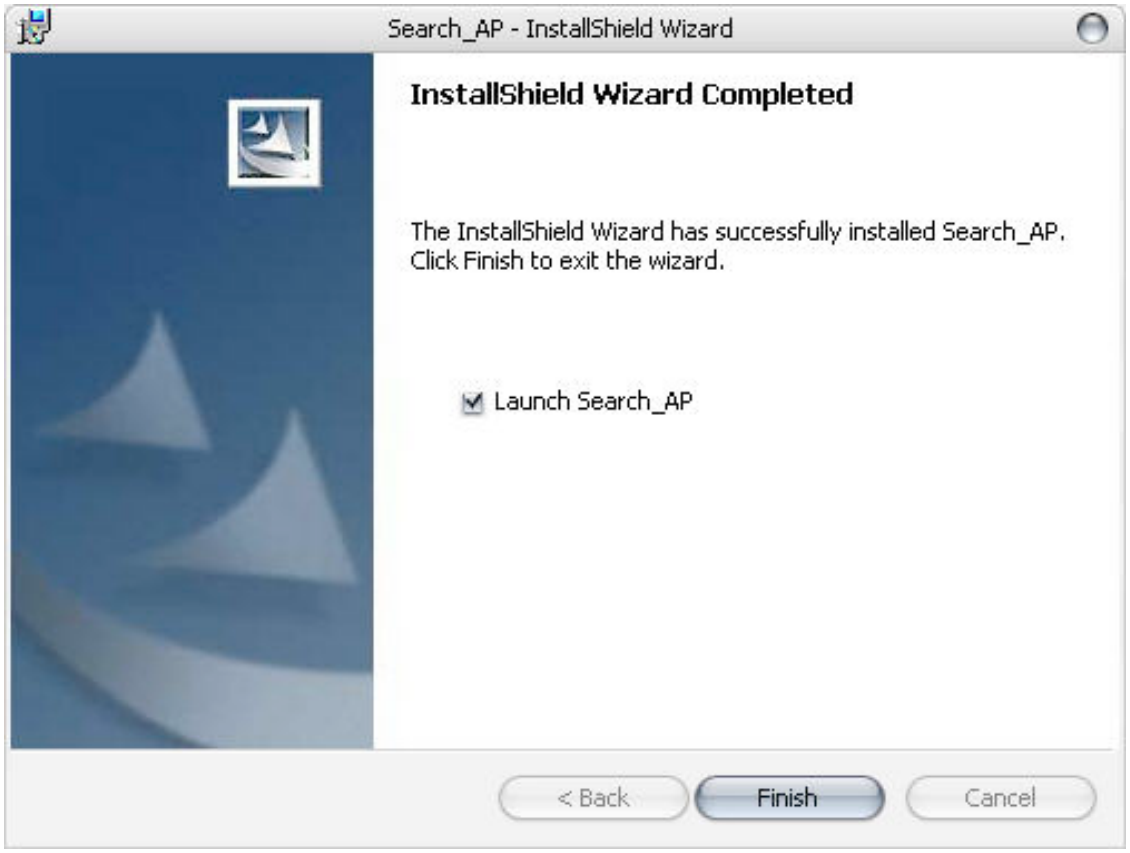
Using NVR Device Search Utility



If the NVR is placed in a corporate network or a local area network where a DHCP server is already presented, run the "NVR Device Search" utility from a computer that is on the same network and locate the NVR with its IP address that is assigned by the top-level DHCP server.

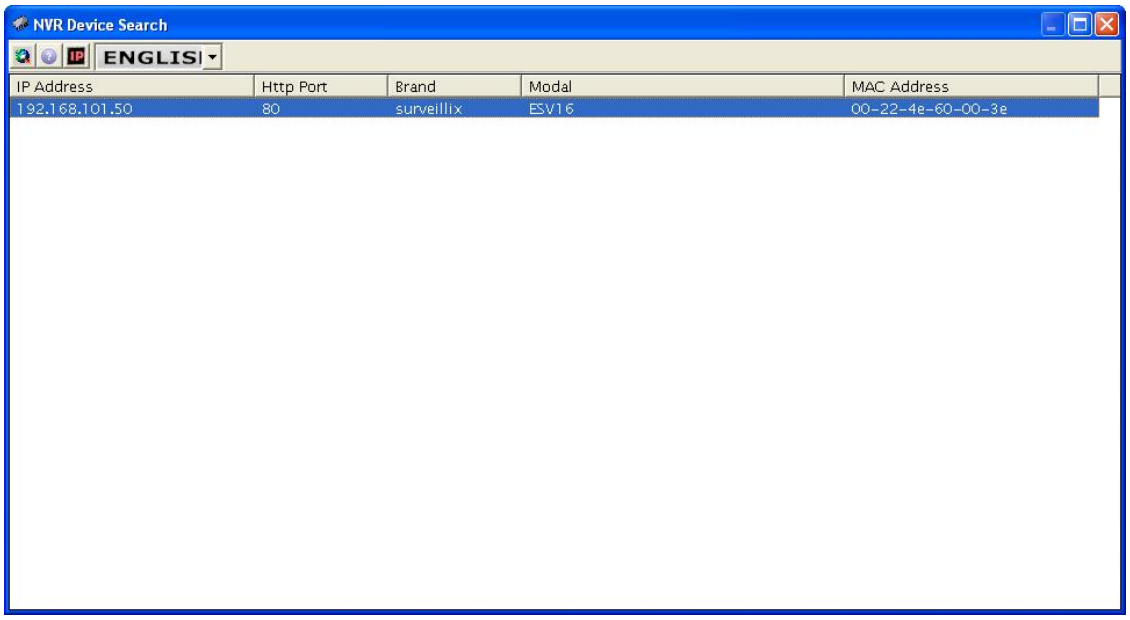

InstallShield Wizard
Preparing to Install...
Search_AP Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Checking Operating System Version
Cancel

To begin, launch the “NVR Device Search” utility from the CD and proceed with the installation:

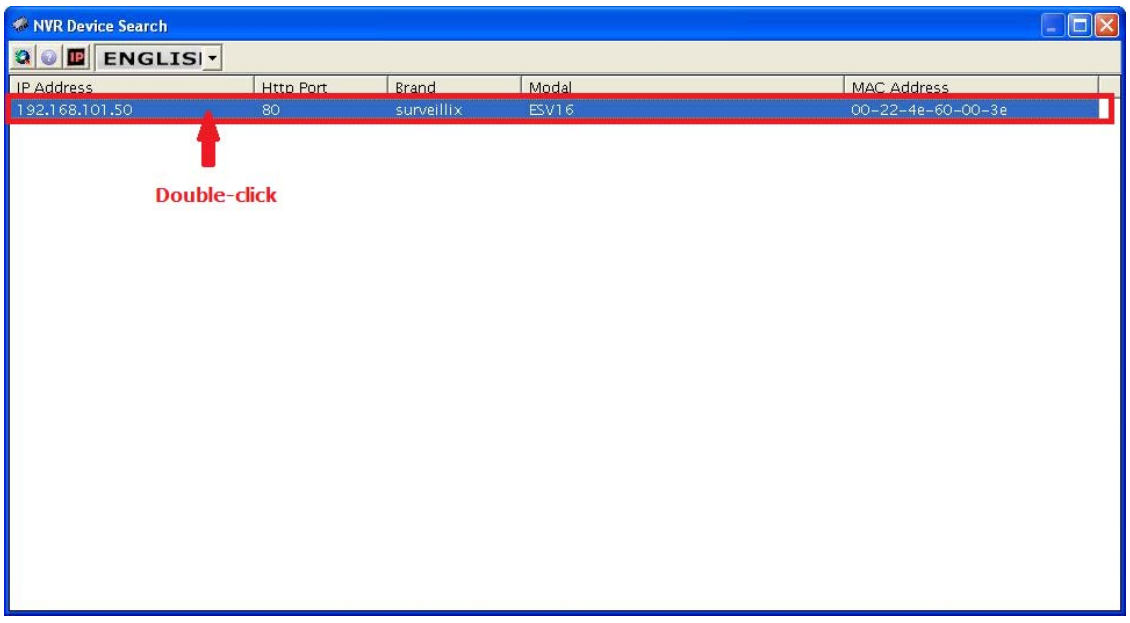


Once the installation is complete, check the “Launch the Search AP” option and click “Finish”.

The search should start automatically and its status should be displayed.



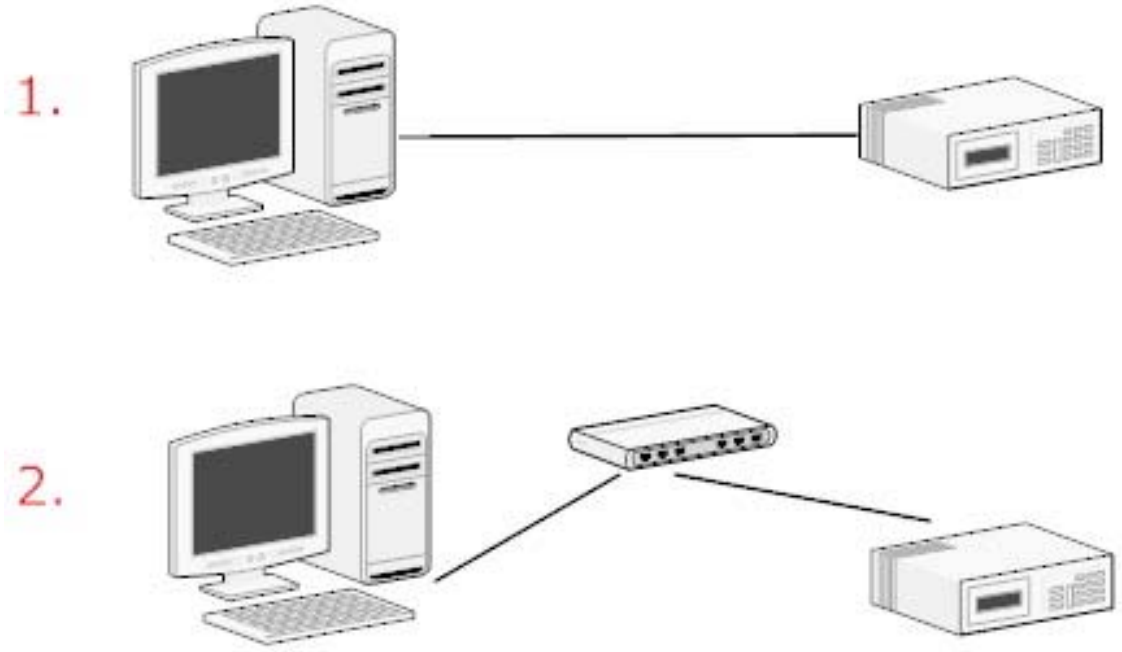
The NVR should be located and its IP address should be displayed.



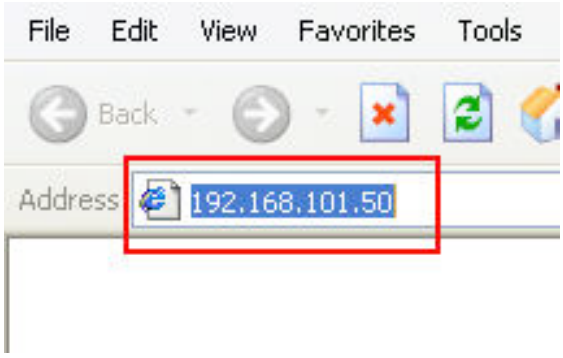
Double-click on an NVR and the search program should automatically access the NVR's web administration page from your default browser.

You will be prompted for the NVR's username and password. Enter its **default username "admin" and password "admin"** and then click"OK" to enter the system

Access the NVR with its default IP address



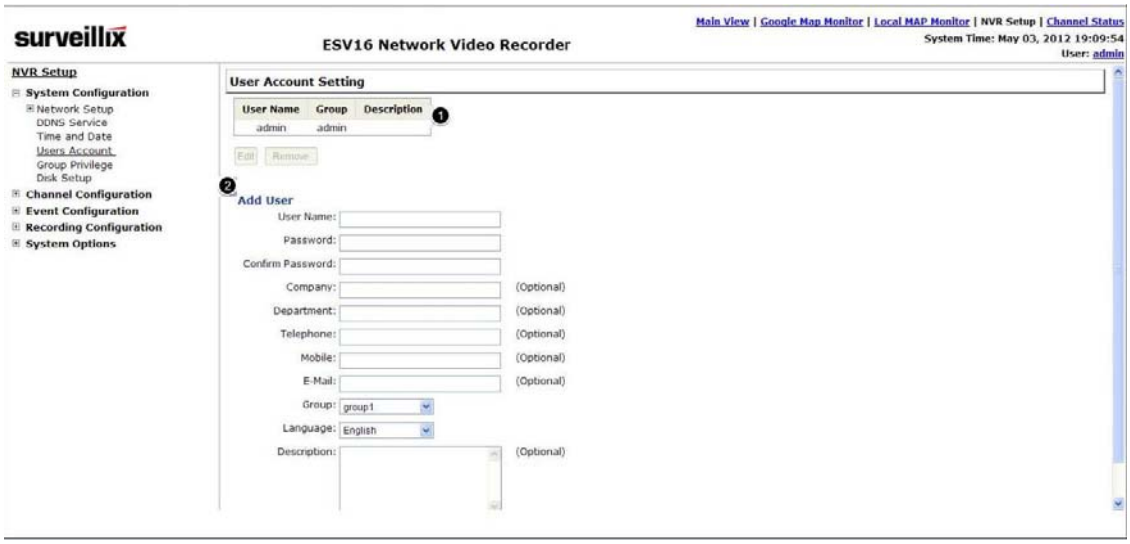
The NVR comes with a pre-configured static IP "**192.168.101.50**". However, it is only used when there is no DHCP server presented in the network. The NVR will turn on its DHCP server function and act as the DHCP server in the network. To connect to the NVR, use a PC that is on the same network over a switch or hub, or connect the PC directly to the NVR using a crossover CAT5 Ethernet cable.



The PC that is connected directly to the NVR (or within the same local area network) should receive an IP from the NVR. Simply access the NVR from your web browser with its IP address

Again, you should be prompted for the username and password. Enter its default username "**admin**" and password "**admin**" and then click"OK" to enter the system

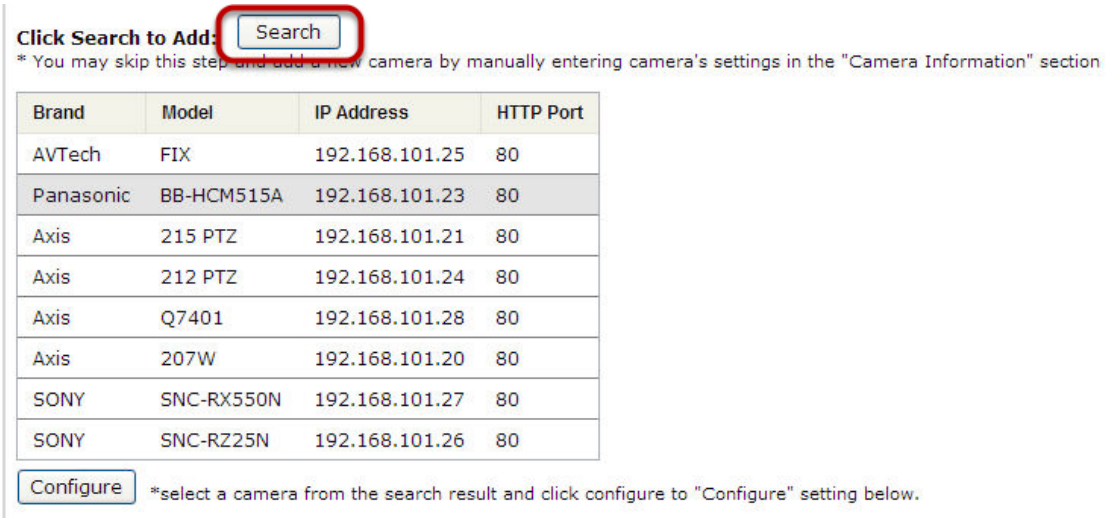
Set up Password



The default login username and password is admin/admin. To change the password of the admin account, go to “Setup” --> “System Configurations” --> “User Account”, click on the “admin” account in the account list then press the “edit” button to change its password. Finally, click “Apply” to save the change.

Camera Installation

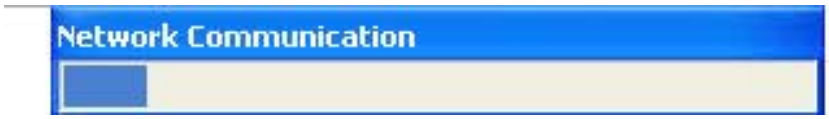
Add a Camera -- Automatic Search



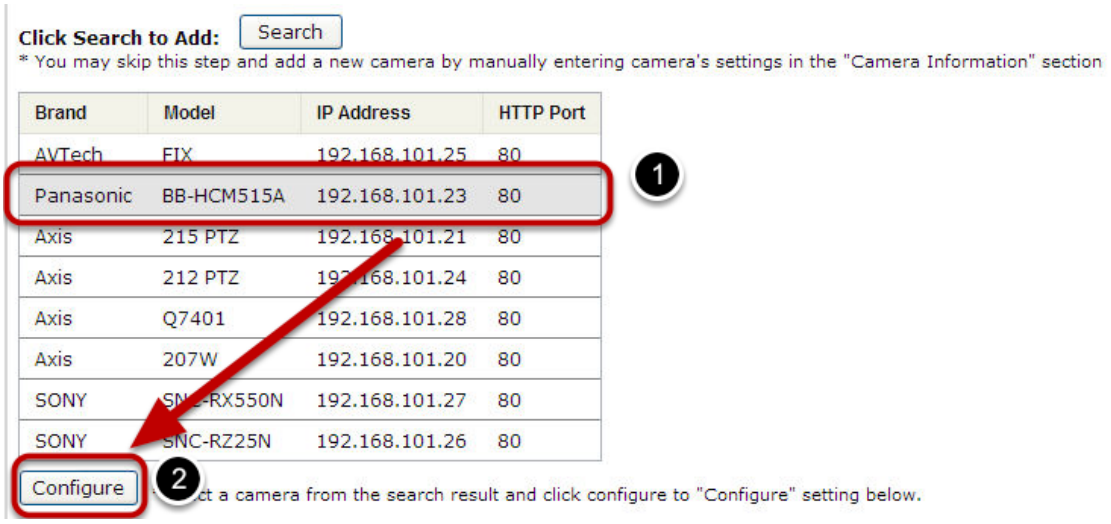
Click the “Search” button to perform the camera search.

Internet Explorer - Security Warning
Do you want to install this software?
Name: ActiveX Control of Media Client
Publisher: Seenergy Co., Ltd.
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

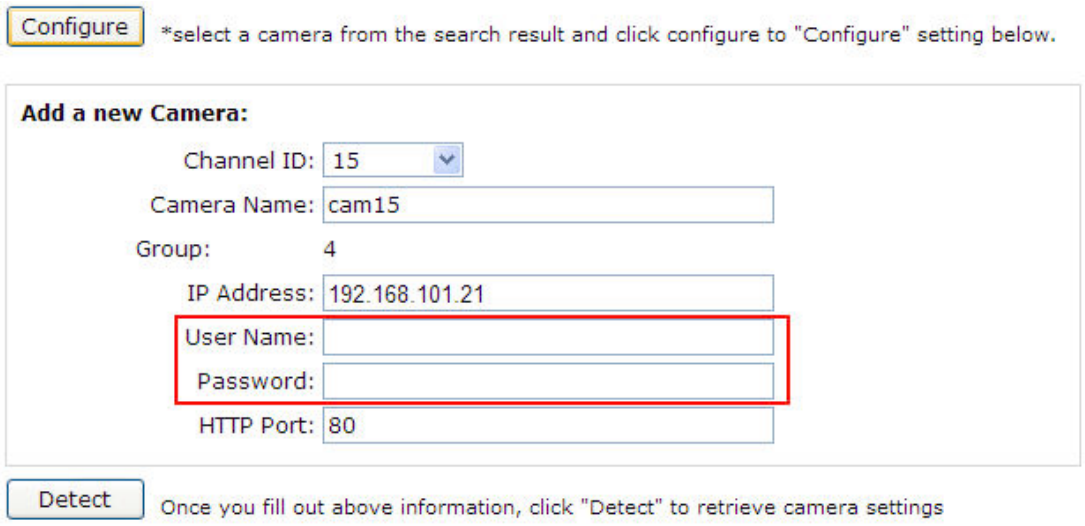
You will be prompted to install Active Control component in order for the search to function properly. Go ahead and click “Install”



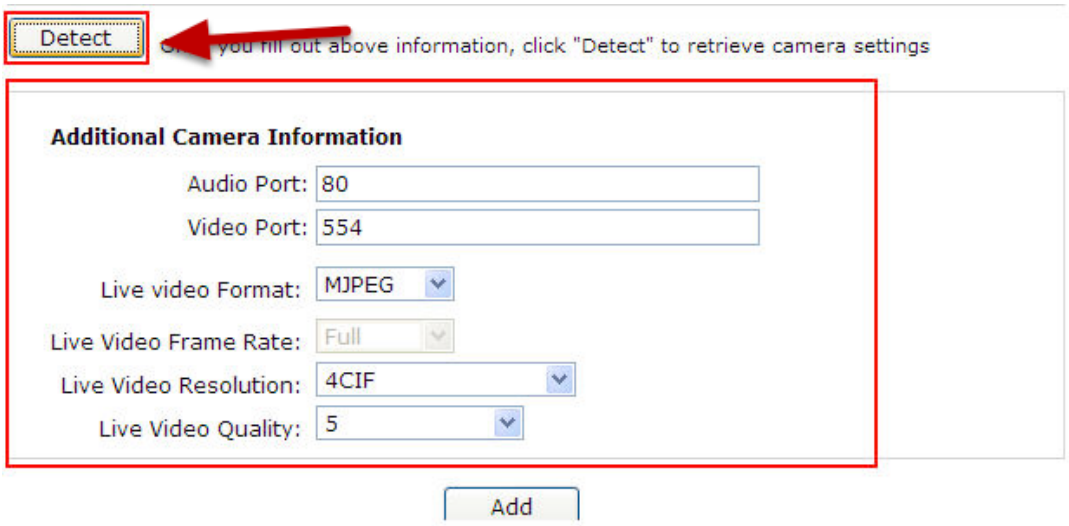
After that, the search should begin and its status should be displayed:



Found cameras should be listed and simply select a camera from the list and press “Configure”

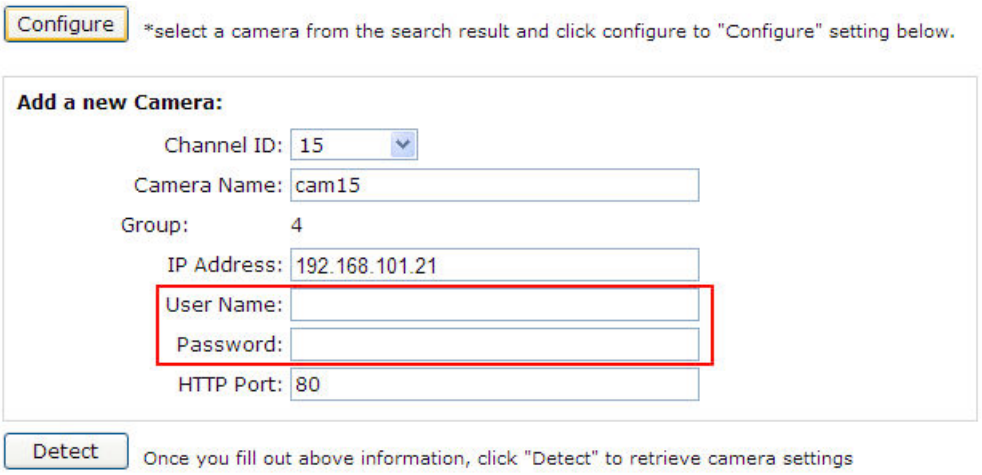

Configure
*select a camera from the search result and click configure to "Configure" setting below.
Add a new Camera:
Channel ID: 15
Camera Name: cam15
Group: 4
IP Address: 192.168.101.21
User Name:
Password:
HTTP Port: 80
Detect
Once you fill out above information, click "Detect" to retrieve camera settings

Its corresponding information should be displayed in the “Camera Information” section. Enter its username and password and select the channel ID and name the camera.



Click on “Detect” to establish connection between the recorder and the camera. If a connection is established successfully, the camera’s detailed information will be displayed as below.
Adjust its video format, frame rate, resolution or bitrate...etc if you wish and then click “Add” to finish adding the camera

Adding a camera manually


Configure
*select a camera from the search result and click configure to "Configure" setting below.
Add a new Camera:
Channel ID: 15
Camera Name: cam15
Group: 4
IP Address: 192.168.101.21
User Name:
Password:
HTTP Port: 80
Detect
Once you fill out above information, click "Detect" to retrieve camera settings

Simply follow the instruction described above but instead of using the "Search" function, enter the camera's IP address and credential in the "Camera Information" manually.